- 6. (Amended) A method for producing transgenic poinsettia plants, comprising the steps of:
- (a) incubating poinsettia plant tissue explants [capable of producing] that produce reddish epidermal callus on callus induction medium;
- (b) culturing reddish epidermal callus on embryo induction medium comprising casein hydrolysate to form embryogenic callus;

(c)

- (i) introducing an expression vector into said incubating embryogenic callus to produce transformed embryogenic callus, wherein said expression vector comprises a selectable marker gene and a second foreign gene, or
- [(c')] (ii) introducing two expression vectors into said incubating embryogenic callus to produce transformed embryogenic callus, wherein one of said expression vectors comprises a selectable marker gene, and wherein the second of said expression vectors comprises a second foreign gene[,];
 - (d) culturing said transformed embryogenic callus on selection medium;
- (e) culturing said transformed embryogenic callus containing embryos on developmental medium;
 - (f) culturing said transgenic embryos on maturation medium; and
 - (g) recovering transgenic plants from said transgenic embryos.
- 39. (Amended) A method for producing transgenic poinsettia plants, comprising the steps of:
- (a) incubating poinsettia plant tissue explants [capable of producing] that produce reddish epidermal callus in callus induction medium;
- (b) culturing embryogenic callus produced on said callus induction medium in liquid embryo induction medium;
- (c) filtering the culture and culturing the filtrate in fresh liquid embryo induction medium:
- (d) filtering the culture and culturing the filtrate on solid embryo induction medium;
- (e) culturing embryos produced on said embryo development medium on maturation medium;
 - (f) culturing said embryos on callus induction medium;



(g) culturing epidermal callus produced on said callus induction medium on embryo induction medium to form embryogenic callus;

(h)

(i) introducing an expression vector into said embryogenic callus to produce transformed embryogenic callus, wherein said expression vector comprises a selectable marker gene and a second foreign gene, or

Condid

- [h'] (ii) introducing two expression vectors into said embryogenic callus to produce transformed embryogenic callus, wherein one of said expression vectors comprises a selectable marker gene, and wherein the second of said expression vectors comprises a second foreign gene;
- (i) culturing said transformed embryogenic callus on selection medium;
- (j) culturing said transformed embryogenic callus containing embryos on developmental medium;
 - (k) culturing said transformed embryos on maturation medium; and
 - (l) pecovering transgenic plants from said transgenic embryos.

Please add the following new claims:

2/2/01

--97. The method of claim 1, wherein said poinsettia plants of step (e) are fertile.

BH

- 98. The method of claim 6, wherein said poinsettia plants of step (g) are fertile.
- 99. The method of claim 39, wherein said poinsettia plants of step (l) are fertile.
- 100. The transgenic poinsettia plant of claim 73, wherein said plant is fertile.--